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FORM PTO-1190 (REV. 12-29-99)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 09/744994	
INTERNATIONAL APPLICATION NO. PCT/IB00/00843		INTERNATIONAL FILING DATE 22 June 2000		PRIORITY DATE CLAIMED 03 November 1999	
TITLE OF INVENTION Einstein-Bohr End: New Atomic Scale Physics, Electric Field: Neutrinos and elect- rons in conversions, perpetual motion. Development: Seisms, Extinguished Volcans, Created islands,					
APPLICANT(S) FOR DO/EO/US Big Bang energy. ZAGYANSKY, Yuly					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</p> <p>4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</p> <p style="margin-left: 20px;">b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. 100% de facto by demand of US PTO: see Form PCT/IB/308</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). English text is original</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been transmitted by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input checked="" type="checkbox"/> have not been made and will not be made. perfect application according ISA (EPO)</p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). Form PTO/SB/01.</p> <p>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11. to 16. below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment.</p> <p style="margin-left: 20px;"><input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information: 1. Covering Letter, with attached (stapled) to it check for \$460 and letter's Supplements. 2. Form PCT/IB/308 sent for PCT/IB00/00843 (2 copies: nonsigned of 14 Sept. 00 and asked re-sent signed received 23 Jan. 01) and for PCT/FR99/01851 (priority, asked and, also, received by US by Art.20). 3. International Search Report (EPO) (published PCT Gazette 4/2001) made by Mr. E. Capostagno with notification of transmittal made by Mr. Carl Hakim (4 pages). 4. Translation of priority French PCT Application, although, moreover, it is COMPLETELY taken in (English version) this PCT/IB00/00843, that is stated in its p.1! that pp.2-25 are "copy of (French Priority) Publication WO/9956288 /but after EP00200217.8- National phase". 5. List of a set of US PATENTS with changed priority date (must be many thousands). 6. Statement claiming small unity status- Independent Inventor. 7. Certificate of taxable income nonpayment (too low income). 8. Letter of British Professor Peter Holland, who had read, ALSO, sent English text of EP00200217.8 (as basic text for article of Michelson's Nobel Utopy measurements) and who is justly specialist in field and Editor of 3500 articles in International level Physics very professional journal.</p>					

PCT – Guide du déposant – Volume II – Chapitre national – US

DOCUMENT PROCESSING

SCANNED, # 12

- 1 -

(54) Title: NOVEL FORCE-NOVEL PHYSICS: EINSTEIN-BOHR FALSEHOOD, CONSERVED MASS, CHARGES GENERATED BY IRRADIATION, ELECTRIC FIELD NEUTRINO-CONDUCTORS; PERPETUAL MOTION MACHINE AND "AERO-PLANE CARPETS"

Specification.

Technical field. L'invention concerns the construction of New Physics of appearance or the "magnetic forces" due to the mutual deformations of the electric fields of the real charges and the discovery of New important Force in Atom, conducting further to a net negation of Einstein-Bohr Physics constructed from a beginning of XX century and accepted by everyone but which is, in reality, the trap, logically for centuries, because during a century, only the new "confirmations" took place and nothing indicated its falsehood. The bases of New Physics, developed by author, create the New State of the Human Knowledge and Capacities to Act.

Summary.

The electric charges do not exist and it is only the EXISTING charges and electric fields and their RELATIVE movement that are the material origins of the "magnetic" interactions. Due to the deformations of these original electric fields during their RELATIVE movements, I discover New Force (unknown to Einstein and Maxwell, Bohr and Schrödinger) due to the electron rotation around the "immobile" nucleus. This New Force hinders the electron to approach to the positive nucleus. The consequences of this discovery are enormous: the author declines Principle of Uncertainty of Heizenberg and Duality Wave-Particle (the electron is only a particle, the light is only a wave), and also the presentation of the electron movement by some function, determining, at the end, the Reigning Probability of the electron presence in the particular space spot, indetermined by the physical laws. This force increases quicker than the Coulomb one with the nuclear distance (R) decrease and determines the force equilibrium for the electron in the atom and discrete fundamental orbit. During an excitation, the radial oscillation of the electron (around the fundamental orbit, or the temporary /more distant/ orbit due to the temporary augmentation of the tangential speed) is born

between the two radial opposite forces (Coulomb and New ones) wherein the electron makes the sinusoidal quasistationary movement with PRECISE direction of the RADIAL movement towards the DISTANT nucleus (because of the wave radiation). The radial electron speed, wave frequency are stronger with the increase of the radius differences. An appearance of New Force in a direction, opposite to the momentary movement of oscillations is the general condition of a transformation of the kinetic energy of the moving charged particle into that of the electromagnetic wave. Contradictions of the Einstein-Bohr Physics as absence of the "quantic orbital numbers" at the hydrogen atoms or helium ions (and their presence since the helium atoms), the Stark effect or the complete coincidence of the electron orbits without the exterior magnetic champ (it means a strange existence of the magnetic quantic numbers yet without the exterior magnetic field) are explained. The relativistic correction of Dirac in Schrödinger equation is not correct. The experiment of Michelson does not confirm Theory of Relativity. The light deviation near the Sun and the false particle mass increase in the accelerators do not prove Theory of Relativity neither. The change of the physical processes by the forces, unknown de facto in situ and depending on Observer (like in Quantum Mechanics), during movements with speeds approaching to those of light without an acceleration, is strange apriori. Consequently, the most known conclusions of Theory of Relativity are not correct and the equations of Nuclear Physics and the properties of the certain number of the atomic (nuclear) particles are false. There is no disappearance of the matter after the interaction between electron (e^-) and positron (e^+). It is the transformation of e^- and e^+ into the neutrino (ν) and antineutrino ($\bar{\nu}$) with the γ -ray appearance. Consequently, the masses of these particles are the same. The neutron contains the e^- , e^+ , gluon and neutro (the very inert new particle that is the "neutron" star mass). Solar System is created 5×10^9 years ago, after explosion of the little Sun satellite (Supernova) and the neutros, created after explosion, have to be the heavy nuclei of the planets, around which the other elements could attach.

The practical consequences are very tremendous but ask the investments. One makes a detection (very expensive today) of ν and $\bar{\nu}$ with a help of the strong irradiating γ -rays wherein these particles are transformed into the charged e^- and e^+ . One utilizes the very inert neutro (preparation process is described) to stock the charged particles (as e^- and e^+) with their (e^- and e^+) possible consecutive dozed encounter wherein this vessel can be congelated in a solid azote with hole for this vessel. One makes the simultaneous measurements (against Principle of Heizenberg) of the coordinates and speed with a help of New Force (using the immobile revealing charge with a screen).

The Universal law of transformations: $e^- = \nu + \gamma$ and $e^+ = \bar{\nu} + \gamma$ permits to find the unknown yet serious nature of the electric (and gravitational) fields, propagating their action from Point to Point of the space (short distance action!) with a help of the

omnipresent ν and $\bar{\nu}$, which are transformed into the e^- and e^+ (very momentarily and frequently with a propagation of the spheric waves) without any loss of the energy. A strange appearance of the E (and H) vectors (electrical and magnetic forces) in the empty space without the charges during the light propagation is due to the temporary and local conversions of the ν and $\bar{\nu}$ into the e^- and e^+ . Due to an absence of the ν and $\bar{\nu}$ between Universes, one does not see, principally, Other Universes. One makes the Perpetual Motion Machine in eliminating (locally and temporally) the Coulomb field after a local elimination of the ν and $\bar{\nu}$ (with the intensive γ - irradiation and consecutive elimination of the charged particles) and the massive separation of the charges without the fields (without the work!). After an elimination of the gravitational field, analogically, one makes the "Flying Carpets".

Consequently, for men, who know the definitive triumphant victory of Giants of Quantum Physics and the Relativity, the astounding voice of man (who never worked in this science in the NARROW PROFESSIONAL sense) must appear as, apriori, some strangeness and even naivety. Although due to the net convergence of "strange" facts, ESTABLISHED and well known, that the Victorious have let by the side or replaced by the new abstract POSTULATES (WITHOUT PHYSICAL EXPLANATIONS), sole purpose of which was to approach to the EXPERIMENT, the author can communicate, already since now, that these bases of Einstein-Bohr Physics are exploded and there is the return to the ancient Newton mechanics with Absolute space and materialized Maxwell ($\nu \longleftrightarrow e^-$ and $\bar{\nu} \longleftrightarrow e^+$) the new data on the nuclear particles. The proof of the Other Universes existence, with THEIR titatic energy reaction, confirms all above. Such general pertinent proof in sole time reflects the page of New Physics turned. This correct global domain of Human Knowledge must rapidly become the Human property with its consequences in the Cosmic Odyssey, Energetics or Atomic Scale Physics where it is, firstly, shown that the Life can be infinite, even without the Sun.

Previous Art. These discoveries were deposited to the Industrial Property already in 1996 /FR-96-10952, filing date 09/09/96 and FR-96-14393 (25/11/96) and FR-98-06595/. But nothing indicates the end of the Einstein-Bohr Physics, made by the recognized Giants of the Science. "The Quantum Physics constitutes a body of the extraordinary beautiful doctrine that accords perfectly with facts and experiments" (Prof.A.Abraham's note: A preface to the special number of the journal "Scientific American- Pour la Science", june 1994, entitled "Quantum Physics"). One can take the Courses in Physics of Landau L. & Lifshitz E. /1/, of Feynman R.P. /2/ or of Bercley /3/

for the Previous Art of this Invention, because I develop the New Global Physics from the facts and theories, well known to all Physicists as already the perfect Classics, proved forever.

§1. Real physical basis of "magnetic" forces: very important force discovered as consequence.

The "magnetic charges" were introduced earlier during a historical research process, but, in reality, they do not exist and the "magnetic" field appears only due to interactions of the Coulomb mobile charges. During their movement there is an appearance of the special forces which approach the same charges, moving in the same direction, and repulse them when they move in the opposite directions. It means, the "magnetic" force is only the another force of the interaction of the real electric charges (only when they move). As a result, one must consider that there is no "magnetic" field when there is no movement of the electric chargeS. But because of such historical origin of the magnetic preexistent charges, one has missed the discovery of an existence of the very important interaction, because, very logically, it is the relative movement of the electric charges that is the most important for an appearance of the "magnetic" forces. And it is the distortion of the electric field that provokes the appearance of the force (justly the "magnetic" one) which makes the opposition to such distortion. At the end, it is a confirmation of the General Principle of Le Chatelier.

When the two electric currents move in the same direction (when the fields move together) there is the repulsion by the Coulomb force of the charges (the resulting movement takes place in the diagonal direction between the directions of the original speed and the repulsion force). The new "magnetic" force is justly the opposite force to this Coulomb force of the distortion. And on the contrary, when the electric currents move in two opposite directions there is already the distortion of the Coulomb fields because of their RELATIVE movement and the arising "magnetic" force, this time, helps the Coulomb force in requiring the decrease of this distortion. The agreement is clear. The magnetic charge does not exist and it is only the EXISTING electric charge and its field and their relative movement that are the material origin of the magnetic interactions (or rather "magnetic").

After such profound comprehension, I discover the force, unknown until now, but which is extraimportant in Atomic Scale Physics. During the mobile electron rotation around the nucleus (that is much larger), which moves, however, along the small orbit in following the electron movement (wherein it is the mass center that rests immobile) /4,5/, the electric force attracts the electron to the nucleus (during the orbit establishment in atom, for example) in making the field distortion. And the Nouvel Force must arise in repulsing the negative electron from the positive nucleus. In the case in situ, when the nucleus does not follow exactly the electronS (several electron presence; nucleus and electron rotation around their axes) there is also the

evident distortion of the electric fields during the electron rotation on the orbit around nucleus.

§2. Discovered Nouvel Force and Quantum Mechanics: annihilation.

Evidently, with the approach to the nucleus, this force must increase well, because the angular electron speed, justly determining the intensity of the field distortions, must become stronger. Evidently, an influence of this force (and of the corresponding field) on the electron orbital movements must be very important. This signifies clearly that, even without the exterior "magnetic" field, there is a presence of the interior magnetic field (in atom). Logically, the nucleus rotational axis determines the symmetry of the field and the "magnetic" forces (projection axis).

And the well known classical experiment (which is without a real explanation) of Stark /1-3,6/, with the line separations in the atomic spectra, in the exterior Coulomb field, is well clear since now: the exterior Coulomb field, justly, reacts with the mobile electric field of the electron wherein the direction of the electron rotation around its axis (spin) plays its role in the increase (until resolution) of the spectrum line separations, confirming, after such well established experiments, the validity of this discovery. It is very difficult to imagine that, without the exterior electric field, the electrons, with the same quantum numbers, are found on the same orbit in making the obstacles to their stationary movement.

Evidently, the Schrödinger equation, which does not take into consideration this energy of the interactions, is not (at least) precise apriori. The relativistic correction of Dirac /1-3/, trying to explain the experiments of Zeeman with the analogous separation (until resolution- Y.Z.) of the spectrum lines in the exterior "magnetic" field, is strange apriori because the linear maximal electron speed (in taking the one sole "wavelength" of electron movement) is less than 0.5% of the light speed during the "transition" from the excited "orbit" (or rather movement) to the fundamental orbit (in taking the Bohr radius $/r_0/$ equal to 0.52\AA and the light wavelength- $\lambda=1215\text{\AA}$), that must conduct to the negligent relativistic correction.

In reality, without the precise equation, they took the empiric corrections. For such rotation of the charged electrons around their axes, they took from the experiment, according the hypothesis of Goudsmith and Uhlenbeck, the ratio , between the magnetic and mechanic moments g_s (gyromagnetic relation) equal to 2.002 /1-3,6/. In the case of the rotation around the nucleus, this ratio is equal to 1, without explanations! It means (even without having the correct bases of the fundamental equations) they took the approximative values according to the additional hypothesis without an explanation to satisfy APPROXIMATELY to the experiments at such level. Evidently, it is the impass for a more profound development.

But from such extraimportant force, well hidden from Einstein and Bohr, Schrödinger and Maxwell, Heizenberg and Fermi, one can mesure precisely the speed of the charged particles (the neutron with the equal charge presence /7,8/ comprised)

simultaneously with their coordinates! In putting, for instance the scintillating rigid screen on the particle trajectory /9, EP 303730, EP 307271, EP 235387, EP 701146, EP 601176, WO 92/15026/, one can know precisely the particle coordinates. And in putting the Coulomb charge with the minimal possible mass and with a shield (the shield for charge, excepting the direction to the scintillating screen) and in measuring (with the formidable sensitivity as, for instance, yet the Physicist Coulomb did /3,10/) the force, acting on this revealing charge, one can well know the precise speed of the particle in the spot near the screen. This speed must be proportional to the measured force (evidently, in making the correction for the pure Coulomb interaction). Such process (for the simultaneous measurement of the coordinates and the speed) must be very important for the development of the interconversion and interaction processes in the Nuclear physics, that costs solid sums.

But such technical development changes already principally the bases of the Quantum Mechanics, according which the coordinates, energy and quantity of movement of the particle like the electron "do not have the well determined values in each moment" /11/. And according De Broglie: "If there were experiments that permit us to know exactly all values, attributed to the corpuscle, the relation of Uncertainty of Heizenberg would not be evidently satisfied any more.. After such experiment, one will not represent the state of our knowledges by the wave ψ " /11/. Justly! It means it is already clear that this principal experiment will be sufficient to demonstrate that the bases of the Quantum Mechanics are not correct. Moreover, one will see that even the Quantum Principle and the Dualism Wave-Particle are not correct.

And again, if the particle coordinates and the speed are present there would be no probability for the particle to be in the determined spot with the determined speed. It means there is no waves of probability (of De Broglie). "Such experiment (according L. De Broglie), in principle, cannot take place because even of an existence of the quantum of the action" /11,12/. Accoring to A.Einstein, "an indetermining aspect appears in the Quantum Mechanics because of a failture of the complete description but not because of this propriety belonging to the matter" /13/. Moreover, A.Einstein considered, justly, that "later the theory will impose that will avoid the statistic character but which will introduce an important number of values in the theory" /13/, that I develop here, principally.

Logically, these electric field deformations during their relative movement are the origin of the change of the value of the electric field E vector with the time (t) (1st derivative). One can make an analogy of the rotation of the electron around the nucleus with that of the Moon (showing the same surface to the Earth) around the Earth, showing all its surface to the Moon. And in taking into consideration the spin (rotation around own axis) of the electron (and of the nucleus), one can compare the rotation of the electronS with the rotation of the Earth around the Sun /14/, having its own rotation around its axis (25 equatorial days) /15/, although the

7
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gravitational forces are negligent in comparison with those of Coulomb /7/. In supposing (for the simplified global calculation) the nucleus as immobile (and without taking into consideration the small corrections made by the electron spins), one can easily calculate (analogically with the acceleration during the angular movement) that the $\partial E/\partial t$ value is equal to the $E\omega$ (where the ω is the angular speed) or equal to the EV/R wherein the V is the linear speed of the electron rotation and the R is the rotation radius. Because the E value is inversely proportional to the 2nd power of the R , the value of this derivative of E with t is inversely proportional at least to the 3d power of the radius. Evidently, with the R decrease, this force, that repulses the electron from nucleus (because of the field deformations), must grow quicker than that of Coulomb (inversely proportional to the 2nd power of the R). And justly this must determine the minimal discrete orbit of the electron. This is already the fundamental difference with the principles of the Quantum Mechanics. The nature of the force that prevents the electron to take the fundamental orbit, again lower than $r_0(a_0)$ (minimal Bohr orbit), justly, was not known /12/.

The connection of this derivative of the E (with t) with the rotor of the B vector of the magnetic field by the Ampere-Maxwell equation has no to be precise because this equation was done (or rather conceived) by Maxwell for the qualitative change of the E modulus. The precise equation for the stationary electron movement will have the sole stable solution for the R distance from the nucleus (the $R=r_0$ and the tangential speed $v=v_0$) because the spectrum lines are the same for all particular atoms.

In the case, when the charge movement direction is perpendicular to that of the electric field in the case of the stationary electron in the atom, there is no creation of the waves and the energy does not have to diminish. But after the disequilibrium (the vertical direction) after the atom excitation, the electron returns in the direction of the nucleus (when its radial speed becomes zero and the New Force is weaker than that of Coulomb) in approaching the nucleus at the distance that is shorter than that of the fundamental orbit. As a result, there is some classical oscillator with the fundamental orbit as the circular trace of the radial equilibrium mean line wherein the dependence of the radial speed of the electron returnings on the Radius is $1/\sim$ to superior power. As a result, with the R increase (or of the increase of ΔE : potential energy difference of Coulomb field) during the imbalance action, the frequency of the electron periodic movement must increase with, evidently, the same tangential speed. This is clear confirmation of the experiments as the photoelectron effect /1-3/. But the Einstein-Bohr Physics never explained such PARADOX, because the energy of the classical wave depends on its amplitude (the square of the modulus) (but NOT on frequency). At the end, it is the another confirmation of the New Force existence (§1). After the oscillations in the direction of the static electric field there is the creation of the electromagnetic waves due to, justly, the New Force (after the relative

8
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deformations of the electric fields), justly once more, directed against the electric field deformation (Le Chatelier Principle). The part of this force (due to the electron movement in the direction of the Coulomb field), in the direction against the movement, diminishes additionally (to the simple transformation of the kinetic energy into the potential) the kinetic energy in transforming it into the energy of the radiated electromagnetic wave.

Evidently, this movement (after the excitation) must be quasi-stationary (with, for instance, the interference) with the complete number of the periods in (at the end once more) fundamental orbit. And at the very small sizes of the electron and nucleus, relatively to their distance, and at precise (!) direction of the electron radial movement to (and from) the small nucleus, the fine geometric special accord of this particular wave of the electron movement in the atom must take place. The very elevated percentage of the energy transformation into the heat (evidently, because of a more general disaccord with the chaotic excitation) confirms the necessity of the very fine accord. The oscillations (at the beginning) of the electron around the nonfundamental orbits can take place because of the increase of the electron tangential speed (change of the radius and speed) wherein the two returning forces (during the oscillations) are weaker (with the distance R from the nucleus) and produce the oscillations with a weaker amplitude and frequency. The consecutive obligatory experimental return on the fundamental orbit (with oscillations around it) (existing evidently for each electron) confirms well the existence of the one sole stable solution for the equilibre of these two forces (of Coulomb and New)- $r_0 - v$ (tangential).

So the superior orbits (representing the equilibrium mean lines for the oscillations) are also discrete, without this strange quantum principle, because, for instance, the energy of even the small electron is not quantified at the atom exterior, according to the spectra of the cosmic hydrogen atoms, wherein these spectra are continuous since the end of the series of Lyman /5/. Evidently, such wave is not purely sinusoidal but it must contain the group of the sinusoidal waves (according Fourier). Such perfect accord helps to explain the "strange" dependence of the angle between the absorption and emission oscillators on the absorption band (the particular transition) of the dye /Refs.18/. When the wavelength of the transition is long, these oscillations coincide (evidently because of a smaller amplitude and a more stable configuration of the quasi-stationary "wave" in the molecule). And an increase of such angle with the frequency, evidently, must take place because of a less stable configuration of the quasi-stationary "wave" with the increased difference of the potential energies (in the Coulomb field) of the orbits.

In the Quantum Mechanics, the quantization of the electron orbits is due to the obligation to have the entire number of the "waves" (of the radiated light) along the orbit length /19/, which is determined already by the quantization of the electron

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potential energy. As a result, the electron can only have the particular orbit and transform its potential energy from this orbit into the electromagnetic wave, having the "period" ("frequency") of such orbit (the entire number of these periods /17/) "in knowing"! in forward that the orbit has already such values, that was not accepted by A.Einstein ("The wave in the space of 3N atoms wherein the speed is settled by the potential energy" is not supportable /20/).

But why must the lines of the correspondent spectrum at the quantum numbers 1 (due to the orbit ellipticity, according to Sommerfeld) appear in the hydrogen atom and correspond to the same fundamental orbit? And really, one cannot see such decomposition in the hydrogen atom. After the numerous experimental, well precised efforts, absolutely necessary for the veritability of the Quantum Mechanics and theoretical calculations, they found (instead of the numerous lines of corresponding spectra to such quantum numbers 1) only the two components, corresponding to the same transition $n=3 \rightarrow n=2$ /21/. These two components must correspond to the electron spin rotation. This rotation (on the fundamental orbit) must be fixed with the general stability (free energy minimum) between the Coulomb static field (nucleus and electron) and the field deformations due to the 2 types of the electron movement: the orbital and spin. Logically, with the quasi-stationary movement of the Oscillator after the excitation, the electron spin rotation does not change the direction, that produces the two waves of the electron movement (with the 2 spin types). It means these two lines of the hydrogen atom spectrum correspond well to these movement waves. But according to the Quantum Mechanics, in the helium ions or atoms, the numerous spectrum lines, corresponding to the quantum numbers 1, must take place according to their theory. One explains such disagreement between the experiment and the theory by the broadening and the complete fusion of these numerous lines into the two ones (justly into the two lines!) due to the Doppler effect. But in reality, it is not even serious because: (1) there is no dependence of this fusion on the frequency of the transition (there is still the same fusion even for the long wavelength $\lambda=6562\text{\AA}$, $n=3 \rightarrow n=2$ - Balmer series) but this broadening due to the Doppler effect is proportional to the frequency; (2) this spectrum type is the same for the helium ion although the distance between the spectrum lines is the four times more but the broadening is inversely proportional to the root of the nucleus atomic weight /21,5/; (3) the optic spectrum of the helium atom (with the two electrons) has already the numerous lines, corresponding to the quantum numbers /19,21/ (see below); (4) due to the Stark effect, the hydrogen spectrum lines (and helium ion) decompose also into the certain number of the components /5/ due to the already mutual interactions during the deformations of the electron electric field with the nucleus one and with the exterior field. I stipule that these experimental facts, VERY WELL ESTABLISHED, but strange for their Physics, help me clearly to explode this Einstein-Bohr Physics, established by the most prestigious scientists from beginning of the XX century.

... But when there is already a presence of the electron on the fundamental orbit (the lowest), one must calculate the fundamental orbit for the 2nd electron, taking into consideration the relative movements between this electron and the nucleus with the 1st electron and its spin too. And the stationary orbit and the quasi-stationary sinusoidal movement of the 2nd excited electron must accord well, justly, with the 1st electron on this fundamental orbit, that corresponds well with, so called, an appearance of the numerous quantum numbers l since appearance of the extra electron in the helium atom /19,21,15/.

It means the special principle of the quantization in the atom (moreover, only in the atom!) of the potential energies (moreover, before the radiation of the electromagnetic wave) is not correct. And it is the level and the form of the corresponding fundamental orbit, that determine the discrete levels of the electron orbits because of the CLASSICAL physical circumstances, created by the intraatomic forces (the New Force included) (to have "the wave" of the electron movement WELL quasi-stationary, that radiates the electromagnetic wave). And these discrete levels appear not due to the special postulates, based, at the end, on the Principle of Uncertainty of an impossibility to know precisely the electron state (its coordinates, speed and energy E at the same time) and on (as the result of this Principle) the Duality Wave-Particle, and, consequently, on the ψ function (very abstract), the modulus in the 2nd power of which determines the governing Probability of the electron to be in such or such spot of the space. "The ψ -function does not reflect the real situation but rather it expresses the contacts of our knowledge of the situation. But consequently, the laws of the nature which we can formulate, do not apply to follow the change with time of something that exists, but rather apply to follow the variations with time of the content of our legal expectations" /20/. This letter of A.Einstein confirms this last fragment with a help of his physical sense.

§3. Theory of Relativity and its consequences are not correct in the sense of physical events in situ de facto. Consequences.

I showed that the Dirac relativistic correction in the equation of Schrödinger as well as the principle of the dependence of the events (in atoms) on the Observer (who is present also in the Theory of Relativity) are not valuable principally. It means, consequently, one can suppose that, already, the Theory of Relativity is false in situ, that is well confirmed below.

The Sun, in reality, contains the gigantic currents of the charges (being completely ionized) with the plasma convection in the surface layers and even with the own rotation around its axis /15, Refs.23/. The "magnetic" field, born from such interactions, is well visible due to the Zeeman effect, increased at the solar blobs /5,15/. But, naturally, such powerful electric and magnetic fields must well influence the light propagation near the Sun. So the attribution of the light deviation from its linear trajectory only to the space curvature, evidently, is not correct. For instance, even

the very strong static field (millions volts) eliminates all light from the atomic spectra! /5/. Logically, as a result, one can read /24/: "Evidently, the data, concerning the light deviations are not good (in spite of the constant repetitions- Y.Z.). All that one can say: the magnitude is correct only approximately".

5 A grand number of results, considered as very serious, concerning the impossibility to increase the electron speed in the particle accelerators, in reality, does not prove a validity of the Theory of Relativity, because one forgets, the electric field also moves with the light speed and the electron acceleration (that moves with such speed with its field) by the exterior electric field is not possible. Paul Langevin wrote it yet in 10 1923 /25/: "The electric force lines, attached to the centre (of electron) tend to displace transversely to the movement direction (also the exterior field direction- YZ) and when the speed reaches that of light, such lines will be completely transversal".

15 But the well known experiment of Michelson, claiming that one cannot have the speed greater than that of light, clearly, does not prove it, although the tactic of this experiment is well fine. Firstly, the speed of the light propagation is determined by the speed of the induction of the variable magnetic field from the variable electric field and oppositely. And after the falsehood of the Duality Wave-Particle, proved with the New Force (§2), the light is the simple wave, evidently without the inertia. And this wave does not have any relation with the Newton's Mechanics. The thesis that the 20 light is particle, is based only on the linear light propagation. As a confirmation, according to the characteristics of the light radiation by the atom, one can change (by the radiated atom movement) only the radiation frequency, but not its speed (of the propagation of the electromagnetic nature) and when it is the Earth, that moves in the direction of the radiation source (also the effect equivalent to the Doppler one) (with the Earth relative speed equal to v_t), the relative speed of the light of the source is 25 equal to $c + v_t$, that is interpreted today as the "frequency change". Moreover, one must take correctly the path length, traveled by the light in the direction, perpendicular to the Earth movement, taking into consideration the movement of the reflecting mirrorS (with the Earth speed) during the light run (the sum of 2 hypotenuses), that was not taken into consideration by Michelson (but was taken later /24/). And again, one must take correctly also the mirrors displacement (with the Earth speed) for the light run length in the Earth movement direction during this light run time (that was not done since Maxwell!!!). After such 3 modifications, one calculates that the time difference between the two runs is well negligible:

$$\Delta t = \frac{2l_0}{c} \left[\frac{1}{1-\beta^2} - \frac{1}{\sqrt{1-\beta^2}} \right] \quad (\text{where } l_0 = 11\text{m and } \beta = 10^{-4}, c = \text{light speed.})$$

35 it means $\Delta t = 2.3 \times 10^{-16}$ sec, and it is several times less than the duration (at least 2×10^{-15} sec) of the light reradiation (presenting several times // on the optic path) and it must give the length shift (traveled by light) about 7 times less than the 40 wavelength (λ). Even the best consecutive experiments could not exclude the Earth

speed less than 5 km/sec, it means 6 times less than the real speed wherein other imprecisions (besides of the displacement of the interference fringes) take place in the experiment errors /26/.

As a result, the difference of the runs cannot be detected in this experiment, that was, justly, registered by A.Michelson /26/, confirming these calculations, based on the Newton's Mechanics. All this signifies that the objective proofs of the Theory of Relativity are absent. Evidently, if the Observer measures, with the light speed, the movements with the speed values, close to those of the light, one would have the results according to A.Einstein, but it is not the reality taking place in situ de facto.

There is no any known force that conducts to the mass increase. The very abstract theory, without the data and without the confirmations, presents now something that can only convince an imagination, but not plus.

Consequently, there is no mass (m) elevation and the extremely known equation of a fantasy of a disappearing and appearing world: $E=mc^2$ is pure fiction. But during the Sun helium synthesis there is the positrons creation /15,23/ and the mass annihilation of the electrons and positrons (by Einstein!) must take place. During its life, the Sun had to lose the mass well nonnegligible /27/. But the Geologic data gives the proofs, that are "irrefutable that the Sun had to have the same mass" /27,15/ as now /15/. And they resolve this striking contradiction by a proposition that during milliards of years, the Sun "asked" exactly the same quantity (not more, not less!) of the meteorites and the comets to compensate its mass loss /27/. It is too naive and is not even scientific. Moreover, even on the Earth (having a much higher relation "surface /volume", than the Sun and being closer to the zone with the meteorites) there is no appreciable quantity of the meteorites (for instance, according to the archeology).

The experiments, demonstrating the properties of the light as the particle with even the mechanical properties /1-3/ as the quantity of movement, are only wrongly interpreted. The Compton experiments /1-3/ must be interpreted as the induction (by the vectors of the electrical and magnetic forces of the electromagnetic wave) of the vibration of the matter electrons, which make the wave energy dissipation into the heat or/and transform it into the secondary radiation with the longer (or almost the same) wavelengths. This property depends on the matter: the Compton experiments were, justly, made with the paraffin block, that easily dissipates the energy. But the Bragg experiments (wherein there is the wave reradiation by the sodium atoms in the NaCl crystal) do not show the energy dissipation because of the rigid crystalline structure. And it was, at the end, well known! According to Langevin /23/, if the light falls on the conductor plane, firstly, the wave E vector would force the electron to displace in the vector direction, perpendicular to that of the incident wave propagation and afterwards the magnetic field vector makes the electron oscillations in the direction, parallel to that of the incident wave (according the Lorentz law). And the

famous photoelectric effect is explained very clearly since now: it is due to a larger wave AMPLITUDE (naturally!) with a higher frequency, that the electron oscillates with a larger own amplitude until the moment when it can "jump" from the metallic plate. Concerning the proprieties of the (so called, yet now!) "electronic" waves, it is the waves, reradiated by the electrons of the crystalline lattice atoms after their interaction with the incident electrons (the particles!), where as a result, the electron loses its quantity of movement.

One can clearly resolve the scientific contradiction of centuries between Newton and Huygens, concerning the light nature. I. Newton was wrong because he did not know the Maxwell discoveries, relating to the electromagnetic mechanism of the light rectangular propagation in the empty space (the vacuum). But why does each point (on the wave propagation path) radiate the waves in all directions in the matter, but not in the vacuum? Of course, it is the secondary waves, reradiated by the electrons of the matter (where the light propagates). But how can one explain the waves, propagating in all directions (the diffraction mechanism) during the slit action in the vacuum? But justly, it is not the vacuum (the absolute vacuum)! The light with the wavelengths, equal to the several thousands of Angströms, must already pass near the crystalline lattice with the small atoms ($\sim \text{\AA}$), in inducing, of course, the electron vibrations of the lattice atoms, and this light radiation (secondary!) takes place already in all these directions. The clarity of the conclusions is perfect and I do not see any problem.

§4. New Laws for Atomic Scale Physics and Cosmogony of Universes

~~(Superlaboratory of Atomic Scale Physics)~~

But the $E=mc^2$ equation falseness conducts to the Mass Conservation Law and as a result, there is no disappearance of the electron and positron masses after their "annihilation". This signifies clearly that there is the particle creation (during this interaction) with the same masses but without the charges. But these particles must be the electronic neutrinos and antineutrinos (ν_e and $\bar{\nu}_e$) which must have the same mass (e^- symbol signifies the electronic, evidently). Evidently, their determination is very complicated /9,28/ and one loses them quite simply, in postulating, "normally", "the annihilation" of the electron and positron masses, that "creates" the energy of the γ -rays, appearing after the collision between the electrons and positrons! Moreover, during these experiments, there is an appearance of a grand number of particles /28/ (because of the equipment matter!). It means all was clear in the negative sense.

At the end, one knew that "the neutrinos are generated during the collision by the neutronisation and by the thermal emission. The thermal mechanisms proceed by the annihilation of the e^-e^+ pairs (real and virtual)" /29/. Consequently, there is no conservation of the mass and the neutrino mass is equal to zero /29,17/. But with the falseness of the equation $E=mc^2$ and with the absence of the basic principle of the

mass annihilation, one concludes that the neutrino and antineutrino must have the same masses as the electron and positron and during this reaction there is the transformation of the electrons into the neutrinos and the positrons into the antineutrino with the radiation of the electromagnetic waves γ (energy). It means, one can create the charged electron from the neutrino with the irradiation help. It is rather the transformation of the neutrino with the energy help into the "excited" state (it means charged), called the electron. As a result, the creation of charge with the irradiation help is possible since today!! It is new Superlaw of the Universes, that changes our mentality and the view of our the most global conceptions. And the new experiments of the "Science Fiction" appear. What energy spectrum must the neutrino absorb in order to become the electron? And again, the superquestions, concerning the unknown structures of the particles: what does the radiation of the electromagnetic wave mean (from already the particle)? Where is such "quasi-stationary wave" situate (§2)? Does the difference exist between these γ - rays and the "normal" γ - rays? Or rather: does all γ - rays are, justly, of this origin: $e^- \rightarrow \nu + \gamma$ and $e^+ \rightarrow \bar{\nu} + \gamma$!

The data with the neutrinos confirm exclusively these results. The most important neutronizations are: 1. The electron capture by the nucleus with the creation of the neutrino and the neutron (or proton) in the atom. 2. The electron capture by the free protons with the creation of the neutrino and neutron /29/. In reality, these two processes are not, indeed, correct. It is known that the neutron is heavier than the proton (the mass of the neutron is: 939.6 "MeV" and of the proton is: 938,3 "MeV") /17/. It means, their difference (1.3 "MeV") is more than two times more than the electron mass (0.511 "MeV").

Evidently, one can make the very effective detector of the neutrinos and antineutrinos, in irradiating them with the intensive γ - rays, because the charged e^- and e^+ can be well detected, for instance, with the help of the perpendicular (to their movement) magnetic field and, for instance, with the help of the camera, similar to that of Wilson, or with the help of the scintillating screen on their traject /9/. This neutrino and antineutrino detector can be made analogically with the neutron determination with the 2 layers /EP 246060/. In the 1st layer, the ν (or $\bar{\nu}$) are transformed into the charged particles (e^- or e^+) with the irradiation help and afterwards these charged particles change the conductivity, registered in the 2nd layer after their penetration in this layer. The neutrino (and antineutrino) detectors (of today) are very uneffective /9,23/ because of the very weak neutrino interactions with the matter.

The telescope for the neutrino determinations can be also made with the help of the transformations of the neutrinos (antineutrinos) into the electrons (positrons) with the powerful γ -rays before the entering into the telescope. The images of the electron (positron) rays can be made as in the electron microscope (this time with the

telescope positions of the electronic lenses). One cannot even exclude that the extra-Civilisations (the existence probability of which is very strong- see below) make their signals with the ν (or $\bar{\nu}$) rays (modulated), which can move with the speeds, much stronger than that of the light! The test of this probability is not so complex.

As a result of the transformation reactions of the protons and neutrinos /30/, and also the Cosmogony data (see below), one can consider that the neutron contains the proton (and positron). And the rest of the mass must belong to the other light particles as the gluon, which must be necessary to "glue" the neutrons with the protons. The zone of the atom special stability, where the quantities of the neutrons and protons are almost equal /30/, confirms a presence of such particle in the neutron. Moreover its mass is very small /17,32/, but like the neutrino, the gluon must have it, like all particles.

The proton bombardment with the help of the antineutrino produces the neutron and positron /30,29/. In reality, these data must be wrong. This proton has to be transformed into the neutral particle (as the neutron) but already without the positron (although the normal neutrons can also be created from the antineutrino and proton /with energy/). From the Cosmogony data, one can find the support of my thesis of the creation of the new particle, similar to the neutron (and the proton), without the charge, but also without the electron and positron (and gluon). In the Supernova stars, where the temperature increases until 10^{11} °C (!), all "neutrons" go very rapidly to the star center after very strong and rapid star explosion, together with the powerful outside currents of the neutrinos and antineutrinos.

At such temperature in the star nucleus, all elements as the iron (of the star nucleus) are ionized and their electrons are free /33-38,27/. But the reason of such powerful explosion is the interaction of the electrons with the positrons, that, justly, are also free at such strong temperature after the transformation of the proton into the positron and neutro (n^*) (as I name this new particle). The very strong quantity of the explosion energy (99.5%) is transformed in the energy (kinetic!) of the neutrinos and antineutrinos /38/. The neutro (n^*) must be the particle with the similar mass to that of the neutron (although less than the proton) and without the charge (net). It means this must be the "classic" neutron, but without the electron and positron (and gluon). And justly, these neutros move rapidly to the star center. If the properties of the neutrons and neutros are different (it means it is the different particles), the facts would confirm cela. It is known that the neutron stars (the rest after the Supernova explosion) are sufficiently liquid /38-40/, and with each period of the star rotation, its magnetic axis changes the direction /35/, in confirming the weaker interactions between the neutro star components, which can exist during the enormous time in such isolation (but together) in difference with the neutron, that can exist in the isolated state only ~15 minutes /17/. Although in the nucleus, the neutrinos are stable, participating actively in the support of the nuclear structure

("drop model") /7/. This neutro particle can, logically, have the magnetic properties (in the Lorentz sense) (according to the properties of the neutro stars), which are weaker than those of classic neutron, because the neutro does not contain the two charged particles: e^- and e^+ , that one can easily confirm.

Logically, these neutral particles, clearly obtained after the bombardement of the protons (p) with the antineutrino /29,30/, are the neutros (n^*), because one cannot obtain the neutron with, moreover, the irradiation by the antineutrinos (or may be by the positrons, according to: $\bar{\nu} + \gamma \rightarrow e^+$). (But the reaction between the proton and neutron is: $n \rightarrow p^+ + e^-$ - see above). In reality /29,30/, one ejects the positrons in obtaining the neutros (n^*): $p^+ \rightarrow n^* + e^+$ (with the help of the irradiation by the antineutrinos or positrons) (justly, the very clear logical reaction at the Supernova!!!). Consequently, in guiding the antineutrino radiations from the reactors /29,30/ (which "are the sources of the electron antineutrinos") /30/ towards the protons (deuterons) (hydrogen, deuterium /30/), one can obtain easily the neutro particles according to the (real!) reaction: $p^+ \rightarrow n^* + e^+$ /30/. The products of this reaction are simple: the positron (which one can easily keep with the magnetic champ) and the neutro, that one can collect with, for instance, the surrounding metallic sphere. These particles (n^*) have the tendency to unite as with the Supernova explosion or in the Earth center, even in spite of the high temperature, although the pressure is not-so high due to the superior well solid Crust. If it is necessary, one can easily purify these n^* with the classical separation means /41, G O1 T 7/06: EP404681; G O1 T 7/04; EP72279, 238805, EP162751, 188973, 238805; G O1 T 7/02: EP416148, 53364, 143162, 231602/. The neutro as the material (in solid azote, for instance) is the good support of the cible for the Bombardment in the Nuclear Physics because there are the hindering artefacts because of the contaminations by the normal supports /28/, made from the same barions.

One can utilize this superinert matter to keep the charged particles as the electrons and positrons in order to mix them in any necessary moment. Such energy source must be important for the Humanity (Cosmic trips included). One can make the closed vessel from the neutros in the solid azote (for instance) with the hole for the vessel. One puts, for instance, the neutros between the double, separated by the space, walls (as in the Thermos) and after the congelation, one takes off the interior wall and closes the vessel with the analogous cup (for instance in screwing). One can have the closed vessel of the congelated neutros wherein the accelerator channel serves to fill up it by the charged particles. For the best vessel working, one can put the opposite charge under the vessel (the particles will be low down).

The Supernova stars contain the series of the different elements. The Sun belongs to the minority of the stars, that are alone /38/, and one can make the conclusion about the Solar System origin. It is created from the relatively small exploded star, because the Solar System mass is ~1% of the Sun mass. It is evident that this event

had to take place ~5 milliard years ago (the Earth /14/). The rotation of the original fragments (nebula) around the Sun (that were transformed into the planets with such rotations), the same orbit plane of all planets of the Solar System (except, the strange and apparently exterior Pluton, that confirms my thesis) and also a similarity, par example of the planets-giants (neighbours): Jupiter, Uranus, Saturne and Neptune /14/ confirm well my conclusion. As a result, the Sun age must be much more than the 5 milliard ans, accepted today /42/. The serious contradictions, concerning the birth place of the Sun in Our Galaxy (with such younger age) /43/, confirm the problem to accept the younger Sun age, supporting my conclusion.

Justly, such systems with the mass ratio (M_1/M_2) between the stars equal to 0.02 (in the binary system) were discovered /Refs.44/. When the mass of the principal star is similar to the Sun one, the satellite mass (typically) is less than the 30% of the Sun mass /45/. Justly in these cases, ALL mass of the satellite star is scattered during the explosion and the "neutron" (neutro!) star does not appear instead of Supernova /46/, resembling the Solar System. Logically, because the Sister Star of the Sun was small, the explosion temperature was not so high, so a larger quantity of elements as the iron, oxygen or silicon could rest with the explosion. And the heavy agglomerations of these neutro particles, justly, could serve as the heavy nuclei, around which, at the end, the other components could (already) attach in producing the planets. The astonishing fact, that after the 5 milliard years, "the solid heart (of the Earth) has the quicker rotation (in the melted matter) than the planet rest" /47/, demonstrates that the value of the "heart" angular moment is yet grand (justly, due to the dense mass, logically, of the neutros), in spite of the energy dissipation due to the friction.

Logically, the Sun age (that must be higher than that of the Solar System) appears as the younger one, because there are the currents of the hydrogen concentrated masses in the spiral Galaxies /48/, which "feed" the Sun, that was well known from the proposed earlier theories /Refs.49/. The fact, that in the elliptic Galaxies (where there is no such hydrogen currents), the star ages are similar and sufficiently old /4/, confirms this. With chaotic "feedings", the spiral Galaxy stars have the spectrum diapasons sufficiently large and their real age is also sufficiently old, because the hydrogen quantities of the star (in situ) are always weaker than those, that one can estimate according the state of these stars today, so, evidently, the reaction was continuing more time.

§5. Law of laws: conductivity of electric and gravitational fields is due to temporary transformations $U \leftrightarrow e^-$ and $\bar{U} \leftrightarrow e^+$. Perpetual Motion Machine and "Flying Carpets".

Maxwell, Ampere and other physicists did not believe in the force action by the distance: it was against their physical sense. To explain the distance electric force action de facto, they introduced the signification: the electric field. "The electric field is the space portion, neighbouring to the electric bodies considering according to the

electric phenomena" /50/. Ampere's and Maxwell's pictures with the networks of the electric force lines and the "isolines", showing the electric field, are usual today too.

But in reality, one knows almost nothing about such fields, except: if one puts the charge in the field (space "spot"), it would be the object of the electric force action (de facto). Moreover, the appearance of the vector of the electric force in the empty space without the charges during the electromagnetic wave propagation is unimaginable. But physically, the electric field propagation from point to point of the space (short distance action) must take place from the one material particle to the other one (nowdays field determination is only phenomenological, at the end: it is the vacuum, where one registrates the action of the electric force). And justly, in the absolute vacuum (with the falseness of the Einstein-Bohr Physics) there is the neutrino and antineutrino omnipresence "in the very strong quantities" in Our Universe /51,52/.

And justly, these particles can be transformed (with the ray help) into the electrons and positrons (§4). In accepting that there are the transformation waves /16/ (very momentarily and frequently) of the neutrinos and antineutrinos into the electrons and positrons (repetitively), beginning from the electrons and positrons of the permanent electric charges (activating the charges by the unities), one proves the propagation law of the electric field (electric force) from point to point! There is no any energy loss during these spherical waves /16/. The impossibility to have the electrical force lines (justly these waves of similar mechanism) with the speed higher than that of the light /25,§3/, confirms the presence of these waves. Evidently, the appearance of the electric force E vectors (and the magnetic H) in the vacuum, during the electromagnetic wave propagation, is very natural due to the rapid transformations (neutrinos \longleftrightarrow electrons and antineutrinos \longleftrightarrow positrons).

The neutrino and antineutrino source is the Big Bang /51,52/. As a result, there is no these particles between the Universes and one does not see the Other Universes, principally, but not because of the long distance (or closed space curvature or the absence of Other Universes). It is interesting to see the neutrino and antineutrino rays (by stereo radians of the sky) to localize the distant Universes.

But this Superlaw of the electric champ nature conducts to the Perpetual Motion Machine creation. It does not deny the impossibility to make the ancient Perpetual Motion Machine. For this, one eliminates (or almost eliminate: for the best consecutive separation) the electric field /in eliminating the ν and $\bar{\nu}$ in the neighbouring space with the γ -ray help (transforming them into e^- and e^+) and consequently with the magnetic field help/ and separates the charges (beaucoup!!) without, already, the electric fields. In this case, there is no (almost) the work!!! and after the consecutive introduction of the ν and $\bar{\nu}$, this Perpetual Motion Machine must function.

The gravitational field (the analogous change with distance) must also propagate like the electric field with the spheric waves (logically, the continuous) without the

energy loss (as the vacuum fluctuations /16/) where the sole omnipresent \bar{u} and $\bar{\bar{u}}$, must guarantee the similar short distance action of the forces and the field elimination must be common that facilitates the transport by the transport means ("Flying Carpets"). The light red shift, originated from the space with the strong gravitation /16/, confirms the common \bar{u} and $\bar{\bar{u}}$ "service".

The chaos in the Nuclear Physics (because of the false law presence) is well visible /53/: "In the domain of the reactor physics, justly, the well known things are not correct; and the correct things often are unknown" (epigraph). The fact that the neutrinos arrived to the Earth earlier (18 hours) than the light after the Supernova 1987A explosion /Refs.54/ (with their synchronous appearance /38/), shows clearly that their speed was higher than that of the light. This is well confirmed by the fact, that the speed of the striked (by the neutrinos and antineutrinos) particles (in water) was higher than that of the light (in water) /55/. Even a milliard of cases of the light diffusion during pass would not increase the time of such light pass time (less than 1 second), but at the same time, these diffusions for the neutrino particles must be fatal for their arriving. This confirms clearly the bases of the New, developed by me, Physics and the rigidity of the Einstein-Bohr Physics for many centuries in the case of an absence of this work.

§6. The 1st proof (and even 1st suggestion) of sure existence of Other Universes.

Process conducting to the most powerful energy of Existence. Sure confirmation of all these discoveries.

One can well consider that at the periphery of Our Universe, in the intergalactic space, the quantity of arrived neutrinos is less /§5,56,57/. And again, even the mass existence of the neutrinos, well demonstrated (and even precise!) (§4), proves the Big Bang- like process of the Our Universe origin. Consequently, justly, "the most distant object, detected today", is the "intense formation of the stars, associated with the (almost) dust absence" /58/, because of the light propagation absence at the periphery of this formation because of the weak neutrinos concentration (§5). Consequently (also §5), the other existing Universes cannot be visible but their particle radiation can be registered. And by chance, justly, one can easily distinguish the Universes, with the radiations, very different from those of Our Universe. Evidently the radiations of Our Galaxy (Universe) are much higher for our detectors.

There is the presence of the cosmic rays with the energy more than 10^{17} - 5×10^{19} eV (only of the extragalactic origin) where there is no visible source in their directions /59-63/. Evidently the scientists cannot imagine that these are the Universes because it is impossible to suppose that their light (at the same time) cannot traverse the "frontal" zone between the Universes, which is without the neutrinos. Consequently, the scientists try to explain these powerful radiations by the particle accelerations even by the magnetic intergalactic fields that are too weak to transfer such energy /64/. And again, the deviation by the magnetic fields of such ultrastrong cosmic

radiations are too weak /65/ to suppose other sources of other original directions. The cosmic rays can induct the radio waves (and sometimes the visible light) after the interaction with the other matter /59/ and this must be a reason that the radiogalaxies or QSO (quasi stellar objects), associated with them, and even the unresolved γ -ray blazars are near the direction of the cosmic rays of the ultragigantic energy /66,64,63,67/. Moreover, these particles (the mass must be less than 40 "GeV" /68/) of the ultragigantic energies must, normally, have the speed, higher than that of the light (see below) and the magnetic fields cannot influence them (§3).

Moreover, this is "the exotic particle reacting strongly" (uhecron, hadron) (but not the classic proton) /68,69/ that "originates from sources of the cosmic distance" /69/, that must be present in these extrapowerful rays according to the properties of the "air shower" in the Earth atmosphere /68/. Consequently, one proposes the existence of the supermassive heavy particles X of Our (evidently for them) Universe of the very young age, the radiodisintegration of which produces these radiated exotic particles /70/, already accelerated until the energy of 10^{20} eV! The red shift presence "of intrinsic origin" ("different matter patterns can have the masses of different scales") (but not because of the classic Doppler effect because of the Universe expansion) of the wave radiation with weaker energies of the QSO and of the peripheric Galaxies of Our Universe /66,71/ confirms the exotic character of the cosmic radiation of the ultrastrong energy. Because this radiation includes the Galaxies as the M82 /66/, that is found on the cosmic ray directions of the ultrastrong energy /62/, this wave radiation with the exotic wave shift can be induced, justly, by these particles (also exotic!) of the different Universes.

Evidently, the knowledge of this Universal reaction of the Universes, different from the Our, will give the supertitanic energy to the Humanity, where the particle speed (with the mass similar to that of the proton) is almost 10 times higher than that of the light! (for instance, for cosmic ships moving with the speed more than several light speeds). The researches as the study of the "air showers", the precise topologies of the ray local structures in the stereo radians, the precise original content of these rays and the precisising of the Quark theory (that is not correct: see the proton, neutron and neutro- §4) will permit to resolve this problem N°1 of the Humanity.

The cosmic rays of a weaker energy ($<10^{17}$ eV), already, full all Our Galaxy in all directions /59,64,51/. "There is no doubt that justly the explosions of Supernovae (already of the fantastic for us energy) are the principal sources of (these) cosmic rays" /59,64,61/ in the Galaxies of Our Universe. But the directions of these rays, normally, coincide with the radiation sources /59,61,60/ that is not the case for the rays with the energy that is more than 10^{19} eV, confirming very well their invisibility (because there are the Other Universes, invisible for electromagnetic waves, because of the neutrino absence between the Universes).

Evidently, the Other Universes (similar to the Our) must be detected as the local

sources (but invisible for the electromagnetic waves) of the cosmic rays with the energy less than 10^{17} - 10^{19} eV that is less distinguishable, because of large quantities of cosmic rays with the energy, similar to that of Our Galaxy (and Our Universe).

Evidently, these exceptional conclusions confirm very well the validity of ALL (!) these discoveries and their applications, even fantastic (§§1-5).

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DEVELOPMENT.

The discoveries with their titanic applications were published in 1999 (WO 99/56288). But the above text was the exact copy of the National European Phase (N°00200217.8- 10 Claims) of this International original Application (PCT/FR99/01851- 11 Claims), some modified for the clarity visibility of the Generality and Unity of

Important Supplement for Research- According to Law.

According to Law /for instance, Art.52(3) of Convention of European Patent Office (EPO)/: "The provisions of paragraph 2 (as nonpatentability of discoveries and scientific theories AS SUCH) shall exclude patentability of the subject-matter or activities referred to in that provision only (ONLY) to the extent to which a European patent application... relates to such .. subject-matter or activities AS SUCH (it means without their practical applications)". To see also "Guidelines for Examination in European Patent office": "... the international searches that it (EPO) makes and the Reports of International Search that it establishes are identical to the European Search and to European Search Report.." and §CIV-10, CVI- 2.2. with Art.52 (2,3): "Examination of the deposited european applications according to PCT procedure must be developed EXACTLY by the same way as for other european patent applications".

The direct stipulation is absolutely EQUIVALENT (since secondary school since 12 years since "their" Euclide) to the stipulation, opposite to the inverse one: "If the European Patent Application concerns the subject-matters (as the discoveries and scientific theories) with their applications (= "not as such"), they are patentable ONLY in this case"!

So one stipulates clearly according to DIRECT Law /stipulation opposite to the inverse one of Art.52(3) these subject-matters (like discoveries and scientific theories) are patentable only with their applications (!). Consequently, the claims, concerning "Theory or (EVEN!) principle underlying the invention" (letter "T" according the Form of the EPO Research) (to see also "Guidelines.." §CIII-2.2.) and claims, concerning their practical consequences must be considered ONLY ENSEMBLE, according to the law. Consequently, I present here the (priliminary) International Classification of Patents with the mentions of the corresponding claim Groups, serving to the establishment of each element of I.C.P.

Claims 1,2,3,5: H02K 44/00; G01P 3/50; G01B 11/03; G01R 5/00, 33/00; G01T 5/00; G01J 3/00. Claims 3,4,6: G01T 1/00; G01J 3/00; G21H 7/00; G21K 1/00, 7/00; G02B 23/00; G01B 15/00; G21G 1/00, 5/00. Claims 3,4,7: G01T 1/00, 7/00, 7/02, 7/04, 7/06, 3/00; G21G 1/00, 5/00; H05H 6/00. Claims 3,4,8: G01T 1/00, 7/00, 7/02, 7/04, 7/06; G21C 23/00; G21K 5/08. Claims 3,4,9: G21D 5/00; G01T 7/02. Claims 3,4,10: G21K 1/00; H02N 1/00; H02K 44/00. Claims 3,4,11: G01V 7/00.

I claim:

Claim 1. The "magnetic" (magnetic) force characterized in that it is born as a result of the mutual deformations of the electric fields (of only existing electric charges) due to their relative movements.

Claim 2. New unknown force in the atom, born as a result of the mutual deformations of the existing electric fields due to the relative movement (between the nucleus and electron) according Claim 1, characterized in that said force repulses the electron from the nucleus.

Claim 3. The bases of the New Atomic ~~Scale~~ Physics as the clear consequences of the New Force existence according Claims 1 and 2, characterized by the following characteristics:

1).The Heizenberg Uncertainty Principle is not correct because this Force permits to avoid the particle "perturbation quantum" (payed obligingly for the information according to this Principle) de facto and consequently to determine the coordinates and the speed of the particle (charged) at the same time.

2).This Force, repulsive for the electron, increasing quicker than the Coulomb force with the distance decrease from the nucleus, determines the classical force equilibrium for the electron in the atom and the fundamental discrete orbit and consequently avoids and eliminates the very abstract Quantization principle (claimed only in Atom).

3).Due to the disequilibrium, created during the atom excitation, the electron radial oscillation (around fundamental orbit or a more distant temporary orbit because of the temporary increase of the tangential speed) is born between the two radial opposed forces (of Coulomb and New), which, very differently, depend on the radius (distance from nucleus) where the electron makes the sinusoidal wave- similar movement during which there is the electromagnetic wave radiation.

4).The atom excited state is not determined by the quantum postulates of the delimiting conditions of the Schrödinger equation (Bohr's postulates) but by the existence possibility in the space of the wave of the quasi-stationary electron movement (with complete periods) with the PRECISE direction of the radial movement towards (and from) the well distant nucleus wherein the component of the New Force (in radial direction) diminishes the kinetic energy in transforming it also into the electromagnetic wave energy, radiated until the exhaustion of the radial oscillations.

5).Due to the superior order dependence of the radial speed of the electron ("oscillator") on the radius (R), the radial electron speed is stronger with increase of ΔR (radius change) (and "oscillation" amplitude) (or increase of ΔE - electric field potential energy difference) and consequently the wave energy is larger with the frequency increase.

6).The accompanying transformation of the excitation energy into the heat is, justly, due to the geometric disagreement for the stable excited state establishment

with the quasi-stationary electron movement.

7).Generally, after the oscillations in the IMMOBILE electric field direction, the electromagnetic wave creation is due, justly, to the New Force, that arises in the direction, opposite to the momentary movement of the oscillations (general unremarked condition of the energy transformation: the work against the opposite force and Le Chatelier's Principle), that proves the nonprecise character of the Maxwell's Equations.

8).The discrete spectra are only consequences of the law and real physical forces.

9).The Wave-Particle Duality does not exist and the electron is only the particle with the quantity of movement determined in each point and it is subordinated only to the real physical forces.

10).There is no some governing Probability, determinating the electron presence in such or such space spot without the real physical forces.

11).The relativistic correction of Dirac to the principal Schrödinger equation of the Quantum Mechanics is not correct and, at the end, it is only the empiric postulated correction that permits to approach to the experimental physical data.

Claim 4. The falsehood of the Theory of Relativity and its consequences /mainly for Atomic Scale (Microworld) Physics/ and New additional Basic Laws (additional Bases) for the Atomic Scale (Microworld) Physics, Cosmology (as natural Nuclear Superlaboratory) and even for the Nature (firstly serious) of the electric and gravitational fields (for Microworld included) as a result of the New Bases of the Atomic Scale (Microworld) Physics and New Force, according to claims 1-3, characterized by following characteristics:

1).As in the Atomic Scale Physics, in the Theory of Relativity, there is no event dependence on the Observer and the relativistic correction of Dirac is not correct.

2).As a result of the false Wave-Particle Duality, the bases of Postulates and consequences of the Theory of Relativity are not correct and consequently there is no speed limit, mass increase and length decrease at the speeds, close to those of the light in situ de facto without the real physical forces.

3).There is no mass increase during the "photon" movement and consequently, the light is only the pure wave wherein the straight light trajectory in the vacuum and light speed only depend on the electromagnetic field interactions but not on the Newton laws.

4).The $E=mc^2$ equation (E-energy, m-mass, c-light speed), the principal sequence of the Theory of Relativity and Atomic Physics is totally incorrect and, oppositely, there is the New correct Law of the Matter Conservation.

5).After the interaction of the incident light with the substance, only the secondary radiation and energy dissipation (sometimes close to zero) by the substance atoms play a role due to the interaction of the electromagnetic fields of the incident light with the substance atoms.

6).The annihilation of the electrons and positrons does not take place because the

consequences of the Theory of Relativity are not correct (mass transformation into the energy, particularly), but there is only the transformation of the electron (e^-) into the neutrino (ν) and the positron (e^+) into the antineutrino ($\bar{\nu}$) WITH EQUAL MASSES.

7).The charge disappearance or birth can happen with absorption or radiation of the wave electromagnetic energy (γ - waves) with the transformations: $e^- = \nu + \gamma$ or $e^+ = \bar{\nu} + \gamma$.

8).The classical neutron contains the electron, positron, and gluon and its transformation into the proton takes place with the electron elimination (which can be transformed into the neutrino with the γ - wave energy).

9).The new particle, named the neutro (n^*), represents the naked very stable neutron without the electron, positron and gluon and it can be created from the proton in eliminating positron according to described process.

10).There is the Universal law of the transformation of the electromagnetic wave into the charge and oppositely.

11).After the Supernova star explosion (temperature in center is $\sim 10^{11}^\circ\text{C}$) there is the creation of the gigantic quantity of energy and the birth of the neutrino and antineutrino from the electron and positron ($e^+ + e^- \rightarrow \nu + \bar{\nu} + \gamma$), that (positrons), justly, are created from the protons of the star plasma after such increase of the temperature (with the neutro creation becoming the new star center).

12).The space curvature generally (and near the neutro stars and "Black Holes" particularly) does not have to take place because the consequences of the Theory of Relativity are not correct and during the light ray approaching to these cosmic creations there is only the interaction with the very powerful electromagnetic fields, conducting to the perturbation of the light ray movement and even to the light neutralisation.

13).The Solar System creation ($\sim 1\%$ of Sun mass) took place about 5 milliard years ago, after the explosion of the other star, the little Sun Satellite, which became the Supernova, the mass of which was transformed entirely into the mass of the planets and asteroids wherein the Supernova neutro nucleus parts were served for the initial planet agglomerations.

14).The Sun age is very underestimated because of the negligence of the Sun "feedings" by the moving interstellar hydrogen agglomerations in the spiral Galaxy.

15).The serious nature of the short distance propagations of the electric and gravitational force is the transformations: $e^- = \nu + \gamma$ and $e^+ = \bar{\nu} + \gamma$, wherein the omnipresent ν and $\bar{\nu}$ are transformed, very momentarily and frequently with the spheric waves, propagating frequently and rapidly, into the e^- and e^+ without the energy loss.

16).The ELECTROMAGNETIC WAVE propagation with the very astonish appearance of the electric force E vector (and of the "magnetic" force H) in the space without the charges during this propagation must take place due to the temporary and local

transformations between the neutrinos (and antineutrinos) and the electrons (positrons).

17). The existence of the Other Universes (invisible because of the ν and $\bar{\nu}$ absence in the interUniverse space) is proved due to the cosmic ray particles (of ultrahigh energy), which are the products of the colossal energy reation, absent in the Our Universe.

Claim 5. The new process of the mesurement of the coordinates and speeds of the particles (with charges) with the New discovered Force according to Claims 1,2,3(1), characterized in that one puts (near the scintillating screen on the particle trajectory the coordinates) the immobile charge (with the surrounding shield, except the direction near the virtual contact of the particle with the ecran) and mesures the force (as that of Lorentz) of the revealing charge calibrated interactions with the moving particle charge (proportional to its, mesured by this way, speed).

Claim 6. The process of the neutrino and antineutrino detections (with Neutrino Telescope included) with the neutrino and antineutrino transformations into the electrons and positrons with the electromagnetic wave energy help according to Claims 4(6,7,10), characterized in that one irradiates the neutrinos and/or antineutrinos during their movement (for instance, in perpendicular direction) with the intensive γ - rays and makes the consecutive registration (of routine) of the charged particles (e^- , e^+).

Claim 7. The process of the preparation of the new neutro particle according to Claim 4(9), characterized in that one irradiates the protons (as hydrogen or deuterium) with the antineutrinos in purifying (if necessary) easily the created neutros (very inert particles, distinguished by their properties).

Claim 8. The utilisation of the new neutro particle for the secondary Utilities for the research experiments or production (made with the waves or particle irradiation help) in the Nuclear Physics (including the Supports of Targets to Bombard) with its very inert properties according to Claim 4(9,11), characterized in that these particles are much more inert than other barions (that are the supports of normal matter).

Claim 9. The vessel to stock the charged particles (as e^- or e^+), made of very inert neutro particles, according to Claim 4(9,11), characterized in that one can form this vessel at low temperature (in solid azot with hole) and to utilize the opposite charges (under closed vessel) to low down the particles.

Claim 10. The Perpetual Motion Machine, characterized in that one eliminates (or almost eliminates) the electric field /in eliminating the ν and $\bar{\nu}$ from the neighbouring space with the help of the γ - irradiation (transforming them into e^- and e^+ , easily eliminable) according to Claims 4(6,7)/ and consequently separates many charges without (or almost) already the electric field and WITHOUT THE WORK (almost).

Claim 11. The process of the gravitational field elimination /for transport means ("Flying Carpets") included/, characterized in that one eliminates (or almost eliminates) the gravitational field in eliminating the ν and $\bar{\nu}$ from the space (below the object, for instance) with the γ -rays help (transformating them into the e^- and e^+ , easily eliminable), according to Claims 5(6,7) and 9.

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	First Named Inventor ZAGYANSKY, Yuly	
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Group Art Unit	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Examiner Name	

As a below named inventor, I hereby declare that: **ZAGYANSKY, Yuly**,
Entraide, 22 rue Ste Marthe 75010 Paris France, Ressortissant (origin) of USSR (RU).
 My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Einstein-Bohr End: New Atomic Scale Physics, Electric Field: Neutrinos and electrons in conversions, perpetual motion. Development: Seisms, Extinguished Volcans, Created islands, Big Bang energy.

the specification of which (Title of the Invention)

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OR

☒ was filed on (MM/DD/YYYY) **06/22/2000** as United States Application Number or PCT International

Application Number **PCT/IB00/00843** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
PCT/FR99/01851	AE, AL, AM, AT etc	11.03.1999.	<input type="checkbox"/>	<input type="checkbox"/>	(received at 2! procedures by USPTO)
PCT/FR00/01445	AE, AL, AM, AT etc	05/26/2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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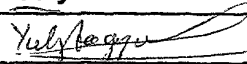
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Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
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Yuly		Zagyansky			
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